

Appl. No. 10/611,939
Amdt. Dated August 29, 2005
Reply to Office Action of July 27, 2005

Amendments to the Specification:

Please amend Paragraph [0012] as follows:

[0012] The present invention also provides a method of detecting a disturbance at a determinable portion along a length of optical fiber using backscattered optical signals that provide polarization change and timing information sufficient to determine a location of said disturbance, said method comprising: launching a pulsed polarized optical signal for carrying within an optical fiber; capturing a predetermined number of reflected polarized signal traces from ~~an~~ said optical fiber; digitally filtering said predetermined number of reflected polarized signal traces to form a plurality of digitally filtered traces; averaging said digitally filtered traces to form an average trace; obtaining a disturbance trace from said optical fiber; and comparing said disturbance trace to said average trace so as to determine a disturbance at a portion of said optical fiber.

Please amend Paragraph [0014] as follows:

[0014] The present invention also provides a ~~hybrid audio/location sensor cable capable of detecting a disturbance at a determinable portion along a length thereof, said sensor leg comprising a hybrid cable comprising including: a locating an~~ optical fiber for carrying a backscattered optical signal providing polarization change and timing information relative to a pulsed polarized optical signal sufficient to determine a location of a disturbance along said locating-optical fiber; and a non-locating sensor cable for generating or modifying an electrical a signal capable of being processed into an audio output indicative of a disturbance along said non-locating sensor cable; wherein said locating-optical fiber and said non-locating sensor cable may be physically integrated within a single jacketing.